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Claim Amendments

Please amend the claims as follows:

Claims 1-32 (canceled).

- 33. (currently amended) A method of fabricating a plurality of individual chips, each of said chips having an array of chemical compounds, said method comprising:
- (a) preparing a plurality of chips on a single silicon substrate, wherein each of said chips comprises an array of electronically addressable sites, each site for electronically carrying out a chemical reaction and each site comprising an electrode,
- (b) applying reagents for synthesizing said chemical compounds on said substrate and utilizing said electronically addressable sites to conduct said synthesizing, and
- (c) severing said single silicon substrate into individual chips wherein each of said chips comprises an array of chemical compounds synthesized in step (b).
- 34. (currently amended) A method of fabricating a plurality of individual chips, each of said chips comprising an array of oligonucleotides, said method comprising:
- (a) preparing a plurality of chips on a single silicon substrate, wherein each of said chips comprises an array of electronically addressable sites, each site for electronically carrying out a part of a synthesis of oligonucleotides and each site comprising an electronic cell within said silicon substrate,
- (b) applying reagents for synthesizing said oligonucleotides on said substrate and utilizing said electronically addressable sites to conduct said synthesizing, and
- (c) severing said single silicon substrate into said individual chips wherein each of said chips comprises an array of oligonucleotides synthesized in step (b).
- 35. (currently amended) A method of fabricating a plurality of individual chips comprising oligonucleotide arrays, said method comprising:
- (a) preparing a plurality of chips on a single silicon substrate, wherein each of said chips comprises an array of electronically addressable sites, each site for electronically carrying out a synthesis of an oligonucleotide of said oligonucleotides to form oligonucleotide arrays,
- (b) exposing said substrate to nucleotide monomers and electronically addressing said sites to form said oligonucleotide arrays, and
- (c) severing said single silicon substrate into said individual chips wherein each of said chips comprises an array of oligonucleotides formed in step (b).